FILE NOTATIONS	
Entered in NID File Entered On S R Sheet Location Map Pinned Card Indexed I W R for State or Fee Land	Checked by Chief Copy NID to Field Office Approval Letter Disapproval Lettor
OW WW TA	Location Inspected Bond released State of Fee Land
LOGS	FILED
Driller's Log Electric Logs (No.)	
E I E-1	GR. Micro
Lat Mi-L Se	onic Others

CAW

Sordon Engineering, Inc.

Consulting Engineers Specialists in Oil & Gas

P.O. Box 3052 822 North Avenue Grand Junction, Colo. 81501 (303) 245-1958



August 23, 1976

Re:

Westwater Federal Well No. M-12. Sec.11, T17S, R23E, Grand County, Utah

Mr. Cleon B. Feight, Director Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Dear Mr. Feight:

We are enclosing a copy of the Application for Permit to Drill the above referenced well in the Westwater area. We anticipate beginning operations with this area between September 15 and September 30, 1976. Should you need any additional information or have any questions, please contact me at (303) 245-1958 or residence (303) 243-9599.

Very truly yours,

John I. Gordon

JIG/jlb Enclosure

Mr. Willard H. Pease cc:

Drod. WWW. 10 113 23E SEILY 305 15TH FEW

Ľ

Form approved. Budget Bureau No. 42-R1425.

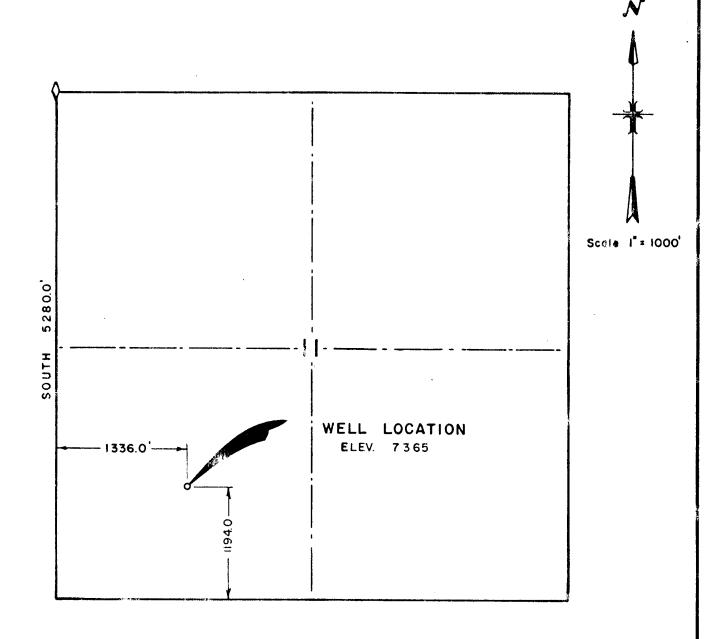
UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

5.	LEASE	DESIGNATION	AND	JARIAL	No.	-
	SL-0	71892				

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APPLICATION	Y FOR PERMIT	O DRILL, I	DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
la. Type of work	ILL &	DEEPEN [7	PLUG BAC	ж.П	7. UNIT AGRESMENT No.	XX.8
b. Tipe of well	ILL &A	DEEPEN (
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2. NAME OF ORGENTOR	- 0:1 c C C			© AUG 27 19	76	Federal	
	se Oil & Gas Com	pany 		ا ي جاري اي	1	9. WELL NO. M-12	
3. ADDRESS OF OPERATOR	52, Grand Juncti	on Colorad	a of	GAS, & MINING		10. FIELD AND POOL, O	B WILDCAT
	eport location clearly and				/\$/	Westwater	• •
At surface				1 / Comment		11. SEC., T., S., M., OR I	EE.
At proposed prod. zon	336 FWL, Sec.11	., T1/S, R23	SE, G	rand Councy; be	all	Sec. 11, T17	S, R23E, SLB&
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Approximate	y 43 miles NW c	f Fruita, (Color	ado). OF ACRES IN LEASE	1 17 NO C	Grand	Utah
LOCATION TO NEAREST PROPRETY OR LEASE I	r	041	10. 110			HIS WELL 320	<u>*</u>
Also to nearest drig 18. DISTANCE FROM PROP	g. uait line, if any) 11	.94 '	10 00	320	20 ROTA	BY OR CABLE TOOLS	
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21. ELEVATIONS (Show wh		1421	<u> </u>		<u> </u>	22, APPROX, DATE WO	ME WILL STARTS
,	7365' G	G.L.				September 1	.5, 1976
23.	I	PROPOSED CASIN	NG ANI	CEMENTING PROGRA	M.	· · · · · · · · · · · · · · · · · · ·	
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1 2 1/2 "	9.5/8"	36#		200'	Cemen	t to Surface w/	'Req + 2%CaCl ₂
8 3/4"	7"	20#		2800'	100 S	x Regular	
6 ¹ 4"	4½"	10.5#+11	.6#	7215'	250 S	x 50-50 Pozmi	
new K-55 Range BOP's will be will be drille Range 2 interm and BOP's will will be drille ductive, 4-1/2 then be perfor permission wil vals are the D will consist o equivalent. B tandem stacked IN ADDITION OF PROPOSAL IS to preventer program, if an 24. BIGNED BOY BIGNED BOY BIGNED BOY BIGNED BOY BIGNED BOY BIGNED BOY BOY BOY BIGNED BOY BIGNED BOY BIGNED BOY BOY BIGNED BOY BOY BIGNED BOY BOY BOY BOY BOY BOY BOY BO	D. Garlo	to 500 psi to 500 psi ft. using tring will sted to 500 ft. using 6# new K-59 and stimulate d the well ountain, Mon ing pressur- ing pressur- con equipment raulic acture proposal is to deep ally, give pertinent	a cas i. T a wa be r psi s air s Ran ted i plug rriso re, 4 nt wi lated pen or p t data o	ing. After night he shoe will be ter-base chemic un and cemented. The shoe will as the drillinge 2 casing will f necessary. I ged and abandon and Entrada 000 psi test proll consist of a type with an apply back give data on prolling back, give data on pro	opling drill cal-gel l. Aft l be d g flui l be r f the led. P format cessure shaff accumul coent prod d messure	up, the surfacted out and an mud. A 7"-20 er nippling up irilled out and d. Should the un and cemente well is non-protentially protentially protentially elions. Wellheat Hinderlighter for 10" Series ator and contructive zone and proposed	e casing and 8-3/4" hole # new K-55, the casing a 6-1/4" hole well be productive, ductive inter d equipment or 900 flanged ols for off to sew productive a. Give blowcet
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PERMIT NO.				APPROVAL DATE	<u> — . — . — . — . — . — . — . —</u>	· · · · · · · · · · · · · · · · · · ·	and the second s
APPROVED BY CONDITIONS OF APPROV	AL, IF ANY:	тп	rle		····	DATE	

WELL LOCATION 1336.0 FT. W.E.L.— 1194.0 FT. N.S.L. SECTION 1), T17S R23E S.L.B.&M.



I, David L. Bear do hereby certify that this plat was plotted from notes of a field survey made under my direct responsibility, supervision and checking on August 5, 1976.

Registered Land Surveyor

WESTERN ENGINEERS, INC.
WELL LOCATION
WILLARD PEASE OIL & GAS CO.

WESTWATER FED. M - 12

GRAND COUNTY, UTAH

SURVEYED_LV. __DRAWN_G.L.A._

GRAND JUNCTION, COLO. 8/9/76

AT (CHMENT 2-A SUMM. OF ENVIRONMENTAL IMPACT 'ALUATION # 25/ Willard Pease Oil & GAS Drilling Transport # M-12 Construction Pollution Production Operations Accidents Otner Sec 11-175-23E Others (toxic gases, noxious gas, etc. Others (pump stations, compressor stations, etc.) SL-07/892, Fluid removal (Prod. wells, facilities) Noise or obstruction of scenic views Mineral processing (ext. facilities) Grand County Utah

BLM - Naegly

USGS - Alexander

Peuse - Gordon Burning, noise, junk disposal Transmission lines, pipelines Liquid effluent discharge Roads, bridges, airports Dams & impoundments Subsurface disposal Socondary Recovery Operational failure 12 Enhance 12 No Effect Spills and leaks Well drilling Pipelines DMinor Impact

Major Impac Trucks Others Others Forestry Grazing Wilderness Agriculture NA Residential-Commercial Mineral Extraction NA Recreation Scenic Views Porks, Reserves. Monuments MA Historical Sites Unique Physical Feature Birds Land Animals Fish MA Endangered Species Now Trees, Grass, Etc. Surface Water NA Underground Water Air Quality Erosion' Other Effect On Local Economy 0 Q D Safety & Health Others 0R19-((~

54 07/892 Lease Well No. & Location m - 12County ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B 1. Proposed Action Peuse Oil & GAS Proposes gas test well wirotord tooks to construct a drill pad 200'x 1.0 × 10' reserve access road will be required, However, be used will need major about 7 miles.
Location and Natural Setting (existing environmental situation) west water ous field. ocation DINION - Juniper, Native ay rasses is the Usual mamals emal birds. There endangered Species. KnowN effected a was road was Constructed the Stream bad the roud to Steep Canyon worth wignede of 10 to 39%. IT illes determined by This inspector and the Bim rep. that the is Blasting a cut required to reduce the greate would becase incre Serieus chegreulation them allowing the steep greates.

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effect	on the environmen	t. Discovery of
CI CIAS	Deposite would , ho	we moderate
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would	be changed, It a	discovery is made
Careful	planning would	De réquired to
Avoid S	erious clegradation.	
The im	rovement of the roo	res would penetion
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	to the Proposed Action Approving the ing the proposed stling and alternate on mental elegence ove, the rocation was	

Determination

(This requested action (does) (does Not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(c)).

Date Inspected

9-2-76.

U. S. Geological Survey

September 8, 1976

Re: Stipulation

District Oil and Gas Engineer United States Geological Survey Conservation Division 8440 Federal Building Salt Lake City, Utah 84138

Dear Sir:

The Westwater Joint Venture is the owner of U.S. Oil and Gas Lease SL-071892, and proposes to drill a well on the leased premises to test for oil and gas at a location in the SE\s\ S\ of Section 11, Township 17 South, Range 23 East, SLB & M, Grand County, State of Utah, 1269 feet from the South line and 1336 feet from the West line of Section 11.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200 feet from the boundary of any legal subdevision without written consent of the Supervisor, United States Geological Survey. The proposed location is approximately 16 feet from the Western boundary line and 51 feet from the Northern boundary line of the SERSWR of Section 11, but is considered necessary because of topographical reasons. A location at any other site will result in more surface disturbance.

This particular area is presently under consideration for 320 acre spacing units by the State of Utah, and the spacing order should be finalized at their hearing on September 17, 1976. The Westwater Joint Venture is Lessee of Section 11 in its entirety, and the Wh of Section 11 will be allocated to the well. Therefore, the Westwater Joint Venture, Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above des-In consideration of such consent, the Westwater cribed location. Joint Venture, Lessee, hereby expressly covenants and agrees that they will make no separate assignments of any aliquot portion of the SW% of Section 11, Township 17 South, Range 23 East, SLB & M, and that they will keep the described acreage under joint assiggment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Very truly yours,

James A. Murphy, Trustee

JAM/jmt

U.S. GEO alcal SURVEY, CONSERVATION IN VISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

T0:

DISTRICT ENGINEER, SALT LAKE CITY, 'UTAH

 Well
 Location
 Lease No.

 Willard Pease Oil & Gas
 72.67/1941 FSL, 1336'FWL, sec. 11, T. 17 S., R.
 23 E., SLM, Grand Co., Utah. Gr. El. 7365'
 SL-071892

- 1. Stratigraphy and Potential Well will spud in the Wasatch Formation, Tertiary Age Oil and Gas Horizons. Oil, Inc. #C-9-10 well of sec. 10, same township, reports the following tops: Mesaverde-815', Castlegate-2063', Mancos-2717', Dakota silt-6193', Cedar Mtn.-6350', Buckhorn Ss-6394', Morrison-6460', Salt Wash Ss.-6802'. T.D. 6876'.
- 2. Fresh Water Sands. WRD reports: (see page 2).
- 3. Other Mineral Bearing Formations. Within the lands classified prospectively (Coal, Oil Shale, Potash, Etc.) valuable for coal. Coal beds in the Mesaverde Group must be protected. Base of coal sequence at about 1340'.
- 4. Possible Lost Circulation Zones. Lenticular sands of Dakota, Cedar Mtn., and Morrison Formations may possibly have lost circulation zones.
- 5. Other Horizons Which May Need Special Casing will be needed to protect the coal Mud, Casing, or Cementing Programs. zones of the Mesaverde.
- Possible Abnormal Pressure Zones Unknown. and Temperature Gradients.
- 7. Competency of Beds at Proposed Casing Setting Points.

 Surface alluvium will cave, if present.
- 8. Additional Logs or Samples Needed. None.
- 9. References and Remarks Within Westwater KGS. USGS Bulls. 851, 852, and USGS Prof. Paper 332.

Date: September 15, 1976

Signed: SR Note for E Pera

. 6 (D-17-23) 1 bdb

011 Incorporated, Westwater M-8

1430' fn1, 1630' fw1, sec 1, T 17 S, R 23 E, Grand County, Utah Elev 5931', test to 5500' in Dakota Sandstone.

Formations:

Mesa Verde Fm 0- 1500 may contain fresh water

Mancos Shale 1500-5500 generally contains salty water in sandstones

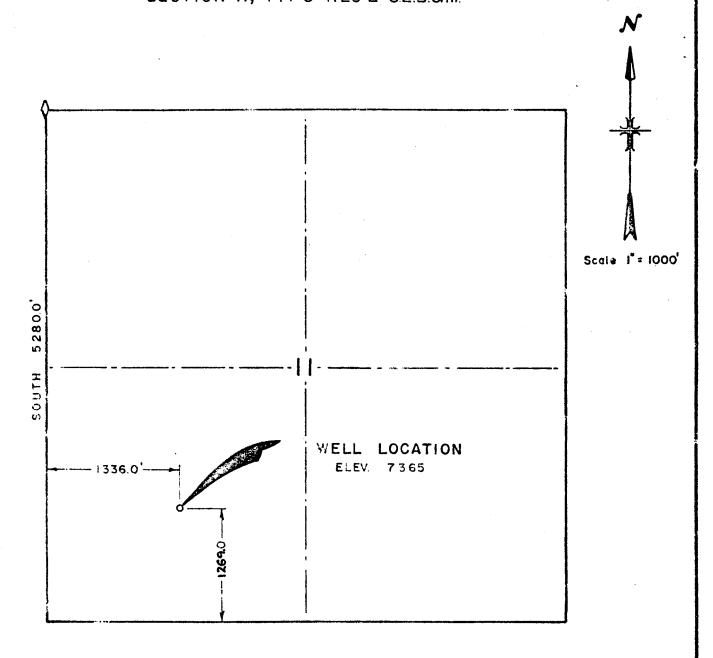
Dakota Sandstone 5500- 5650 will contain salty water

In this area the Mesa Verde Fm is known to contain fresh water. It should be protected from contamination to below the base of the Sego Mem. The Mancos Shale and lower formations will contain salty water under artesian head.

CTS 11-7-69

Form 9-331 (May 1963)	UNITED STATES	SUBMIT IN TRIPLICATE*	Form approved. Budget Bureau No. 42-R1424.
	MENT OF THE INTERIGEOLOGICAL SURVEY	OK verse side)	5. LEASE DESIGNATION AND SERIAL NO.
***************************************			SL-071892 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this form for propo Use "APPLIC	TICES AND REPORTS Cosals to drill or to deepen or plug by ATION FOR PERMIT—" for such pr		
OIL GAS THER			7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Willard Pease Oil a	and Gas Company		Federal
P.O. Box 3052, Gran	nd Junction, Color	ado 81501	M-12
4. LOCATION OF WELL (Report location See also space 17 below.) At surface	clearly and in accordance with any S	State requirements.	10. FIELD AND POOL, OR WILDCAT Westwater
1269' FSL, 1336' F	WL, Sec. 11, T17S, Coun	R23E, Grand ty, Utah	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 11, T17S, R23E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF,	RT. GR. etc.)	SLB&M 12. COUNTY OF PARISH 18. STATE
	7365 G.L	· · · · · ·	Grand Utah
16. Check A	ppropriate Box To Indicate N		
NOTICE OF INTE			ENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL (Other) Move Location	CHANGE PLANS)	(Other)	of multiple completion on Well
,			
During the surface is moved 75 ft. due Nor		requested that the	ne location be
A corrected survey p	plat is attached f	or your files.	
/			
	APPROVED	BY THE DIVISION OF	
	OIL, GAS, J	AND MINING	
		\sim	
/ 1	DATE: Og	At 20, 1976	
	BY:	Ih Small	
C all			2
())		`	
	L		
18. I hereby certify that the foregoing i	s true and correct		
SIGNED 2	TITLE C	onsulting Engineer	r DATE 9-15-76
(This space for Federal or State off	ice use)		
APPROVED BY	ANY:		DATE

WELL LOCATION 1336.0 FT. EW.L- 1269.0 FT. N.S.L. SECTION II, TI7S R23 E SL.B.&M.



I, David L. Bear do hereby certify that this plat was plotted from notes of a field survey made under my direct responsibility, supervision and chacking on August 5, 1975

WESTERN ENGINEERS, INC. WELL LOCATION
WILLARD PEASE OIL 8 GAS CO. WESTWATER FED. M - 12

GRAND COUNTY, UTAH

SURVEYED LV. DRAWN GL.A.

GRAND JUNCTION, COLO. 8/9/76

Sordon Engineering, Inc.

Consulting Engineers Specialists in Oil & Gas P. O. Box 3052 822 North Avenue Grand Junction, Colo. 81501 (303) 245-1958

October 29, 1976

RE: Willard Pease Oil & Gas Co. Westwater Fed. Well No. M-12 SW4, Sec.11, T175, R22E Grand County, Utah

Mr. Cleon B. Feight, Director Utah Division of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Dear Mr. Feight:

Our Application for Permit to Drill the above referenced well was submitted to your office on August 23, 1976. It is our understanding that this location is considered to be off pattern for 320 acres spacing. In order to drill a location that would be in an acceptable spacing position, a tremendous amount of additional expense would be required to construct a road and drill pad that is nearly topographically impossible.

Therefore, we request that your office grant a topographical exception and approve our permit for the above referenced well. Also for your information, we are enclosing a copy of the stipulations filed with the Federal Government stating that no segregation of the acreage within the entire SW¼, Sec. 11, will be made. Should you need additional information or have any questions please contact me at (303) 245-1958 or my residence (303) 243-9599.

JIG/dll Enclosure

cc: Willard Pease Oil & Gas Co.

Very truly yours,

John I.

NOV 1 1976

CIRCULATE TO:

PETROLEUM ENGINEE MINE COORDINATOR

ADMINISTRATIVE ASSISTANT-

FOR FILING

FILE NOTATIONS

Date: Nov. 5, 1976	
Operator: Willard	Dease
Well No: Westwater	Federal Well M-12
Location: Sec. 11 T.175	R. 27E County: Grand
File Prepared	Entered on N.I.D.
Card Indexed	Completion Sheet
Checked By:	
Administrative Assistant: 💟	Skills
Remarks:	d Coordinator:
	Jan
Petroleum Engineer/Mined Land	d Coordinator:
Remarks:	
Director:	
Remarks:	
Tuesta la Mithia America I Lattera	
Include Within Approval Letter: Bond Required	Survey Plat Required
Order No. 41-2	Blowout Prevention Equipment
	ception/company owns or controls acreage
	dius of proposed site
O.K. Rule C-3	O.K. InUnit
Other:	6
	Letter Written

November 5, 1976

Willard Pease Oil & Gas Co. P.O. Box 3052 Grand Junction, Colorado 81501

> Re: Well No. Federal M-12 Sec. 11, T. 17 S, R. 23 E, Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 47-2, topographic exception.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-019-30321.

Very truly yours,

DIVISION OF OIL. GAS, AND MINING

CLEON B. FEIGHT Director

CBF:sw

cc: U.S. Geological Survey

CIRCULATE TO:

DIRECTOR	
PETROLE: SNGINEER	
MINE COVER OF STOR	
ADMINIS ASSISTANT	
ALL	
RETURN TO Kathy	Ľ
FOR FILING	

November 23, 1976

Memo to File:

Re: Willard Pease
Well # M-12
Sec. 11, T. 17 S, R. 23 E.
Grand Co., Utah

On November 22, 1976, Mr. John Gordon reported that the above well was spudded in at 6:00 p.m. on the 21st day of November 1976.

PATRICK L. DRISCOLL CHIEF PETROLEUM ENGINEER

PLD/tlb

SIZE OF HOLE

125"

6¾"

<u>8_3/4"</u>

SIZE OF CASING

7"

4닐"

9 5/8"

Pline

Form approved. Budget Bureau No. 42-R1425

QUANTITY OF CEMENT

50-50 Pozmix

100 Sx Regular

250 Sx

Cement to Surface w/Reg + 2%CaCl2

UNITED STA		ide)		
DEPARTMENT OF TH	LINIERIUR	5. LEASE	DESIGNATION AND SERIAL	30.
GEOLOGICAL SU		071892		
APPLICATION FOR PERMIT TO DRILL	L, DEEPEN, OR PLUG	BACK 6. IF IND	DIAN, ALLOTTEE OR TRIBE NA	AMB
1a. Type of work				
DRILL 🔯 DEEPE	N D PLUG 82	7. UNIT	AGREEMENT NAME	
b. Type of well				-
OIL GAS WELL X OTHER	SINGLE ZONE	8. FARM	OR LEASE NAME	
2. NAME OF OPERATOR		Fede	eral :	
Willard Pease Oil & Gas Company	[a] Du 12	10. WELL		
3. ADDRESS OF OPERATOR	O DEC 17	7976 CD M-12		
P.O. Box 3052, Grand Junction, Colo	rado 81501c MINI	C/L 10. PIRE	D AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance At surface / 1/64/		VG	twater	
1194 FSL, 1336 FWL, Sec.11, T17S,	R23E Grand County H	ala 11. SEC.,	T., R., M., OR BLE. SURVEY OR ARRA	
At proposed prod. zone	1917		. 11, T17S, R23E	ST.B&
	•		,,	.,
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR	POST OFFICE*	12. COUNT	TY OR PARISH 13. STATE	
Approximately 43 miles NW of Fruita	Colorado	Gran	nd Utah	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES AS		
PROPERTY OR LEASE LINE, PT.	320	TO THIS WELL		
(Also to nearest drig, unit line, if any) 1194* 18. DISTANCE FROM PROPOSED LOCATION*			320	:
TO NEAREST WELL, DRILLING, COMPLETED,	19. PROPOSED DEPTH	20. ROTARY OR CABL		
OR APPLIED FOR, ON THIS LEASE, FT. NA	7215'	Rotary	?	:
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		22. APP	ROX. DATE WORK WILL STA	RT*
7365' G.L.		Sep	tember 15, 1976	,
23				

PROPOSED CASING AND CEMENTING PROGRAM

SETTING DEPTH

200

2800'

7215'

WEIGHT PER FOOT

36#

20#

10.5#+11.6#

We propose to rig up and drill a 12-1/4" hole to approximately 200 ft. and set 9-5/8"-36# new K-55 Range 2 (30 ft. joints) surface casing. After nippling up, the surface casing and BOP's will be pressure tested to 500 psi. The shoe will be drilled out and an 8-3/4" hole will be drilled to about 2800 ft. using a water-base chemical-gel mud. A 7"-20# new K-55 Range 2 intermediate casing string will be run and cemented. After nippling up, the casing and BOP's will be pressure tested to 500 psi. The shoe will be drilled out and a 6-1/4" hole will be drilled to about 7215 ft. using air as the drilling fluid. Should the well be productive, 4-1/2"-10.5# and 11.6# new K-55 Range 2 casing will be run and cemented. then be perforated, tested, and stimulated if necessary. If the well is non-productive, permission will be secured and the well plugged and abandoned. Potentially productive intervals are the Dakota, Cedar Mountain, Morrison, and Entrada formations. Wellhead equipment will consist of 2000 psi working pressure, 4000 psi test pressure Hinderlighter equipment or equivalent. Blowout prevention equipment will consist of a Shaffer 10" Series 900 flanged tandem stacked double ram hydraulic actuated type with an accumulator and controls for off the in amove space describe proposed program: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations 24

senter program, if any.		The second secon	
SIGNED D. D. SLOP	. TITLE _	Consulting Engineer	ратв8-20-76
(This space for Federal or State office use)			
(Orig. Sgd.) E. W. Guynn	····	APPROVAL DATE	
APPROVED BY	TITLE _	DISTRICT ROLLINGER	DEC 1976
CONDITIONS OF APPROVAL, IF ANY:		•	

Approvat Notice Willaw STATE OIL, GAS & MINING

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Consult Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. applicable State or Federal regulations concerning subsequent work proposals or reports on the well. Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. Item 14: Needed only when location of well cannot readily be found by road from the land or lease description.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

4 GPO 782-931

checked daily, and the blind rams closed at every opportunity. Air is to be used as the drilling medium and a rotating mud weights to kill the well. Logging program should consist of an IES and a FDC-CNL porosity log and the intermediate mum anticipated pressures will be 1200 to 1600 psig in the Dakota-Morrison group and should require no more than normal opening valve on the floor. No cores are anticipated and the well will be tested continuously be air drilling. Maxi-Other safety equipment consist of a Kelly Cock and a full Operations should be completed within 120 days after the date shown. Operation of the BOP equipment will be Blind rams, 3-1/2" pipe rams, and a positive and adjustable choke will be installed. Any spools will be a 10" or 7" Series 900 flanged and any flanges will be Series 900. head, a float at the bit, and a string float will be used. portion will not be logged unless requested to. Estimated Geological markers are: floor operation.

Mesa Verde Surface Dakota 6415' Morrison 6575' Entrada 7215'

Sala Presidente



Birdw 11 Division

WELL LOG DISTRIBUTION LIST

*

The following distribution has been mode on your Well Logs in accordance with your instructions. Birdwell will retain one (1) copy in its local files for a period of one (1) year following date logs were run. The copy will then be destroyed locally. Only authorized Birdwell employees will be permitted access to the local Log Files.

No copies of Confidential or non-released logs will be filed in Birdwell files. All Original Logs will be forwarded with print distribution.

COMPANY NAME	WELL NAME	
WILLARD PEASE DRILLING COMPANY	l	M - 12
NELL LOCATION	STATE	COUNTY
WESTWATER	HATU	GRAND
YPE LOGS RUN	1,	DATE RUN
IND.		13 .IANUARY 77

DISTRIBUTION

Original Logs Mailed To:

ORIGINAL LOGS AND FINALS (5) SENT TO:

WILLARD PEASE DRILLING 2415 INDUSTRIAL BLVD. GRAND JUNCTION, COLORADO 81501

Copies Mailed To:

2 COPIES EACH TO:

POLUMBUS CORP.
3 PARK CENTRAL SUITE 200
1515 ARAPAHOE STREET
DENVER, COLORADO 80202

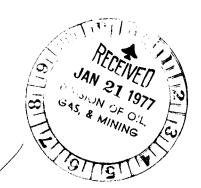
WILLARD PEASE OIL AND GAS 570 KENNECOT BLDG. SALT LAKE CITY, UTAH 84133

ENI 1401 BANK OF CALIFORNIA SEATTLE, WASHINGTON 98164

U.S.G.S.
OIL AND GAS DIVISION
FEDERAL BLDG.
SALT LAKE CITY, UTAH 84111

1 COPY EACH TO:

STATE OF UTAH 1588 WEST N. TEMPLE SALT LAKE CITY, UTAH 84116



1	\mathcal{M}	
Form 9-331 (May 1083)	TES SUBMIT IN TRIPLIC	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL S		SL-071892
SUNDRY NOTICES AND RE Do not use this form for proposals to drill or to de Use "APPLICATION FOR PERMIT	epen or plug back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OLL GAS WELL WELL WELL OTHER	MAR STVFI	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	GAS ON OF 1977	8. FARM OR LEASE NAME
WILLARD PEASE OIL & GAS COMPANY	GAS & MINING	FEDERAL 9. WELL NO.
3. ADDRESS OF OPERATOR	\times \sim \sim \sim \sim \sim \sim \sim	M-12
570 Kennecott Building, Salt Lake (4. Invation of Well (Report location clearly and in accordance)	ance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
S also space 17 below.) At surface		WESTWATER
1269' FSL, 1336' FWL, Sec.	11, T17S, R23E, Grand County Utah	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
·		Sec.11,T17S,R23E, SLB & M
	how whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
7365		Grand Utah
16. Check Appropriate Box To	o Indicate Nature of Notice, Report, or C	Other Data
NOTICE OF INTENTION TO:	SUBSEQU	JENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASIN	NG WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING ABANDONMENT®
SHOOT OR ACIDIZE TEPAIR WELL CHANGE PLANS	SHOOTING OR ACIDIZING (Other)	1 200.000.000
Other) Abandon	(Note: Report results	of multiple completion on Well etion Report and Log form.)
17. ILES RICE PROPOSED OR COMPLETED OPERATIONS (Clearly star proposed work. If well is directionally drilled, give s ment to this work.) *	to all portingut details and give pertinent dates	including estimated date of starting any
Spudded Well @ 5:00 PM 12/29/76.		
Ran and cemented 171' of 10 $3/4$ " - cement + 3% CaCl ₂ .	40.5# Casing. Cemented to su	rface with 100 Sx Regular
Ran and cemented 3048' of 7"-20# C		4
Drilled to a total depth of 6608' and water was encountered at 6608'	_	rocarbons were present APPROVED BY THE DIVISION OF
Formations 0:	D1 0	OH GAS, AND MINING
Mesa Verde: Surface Mancos: 2600' Dakota: 6400' Unable to Log below 6470'	3050' - 2950': 25 Sx 1235' : 35 Sx 175' - 100': 40 Sx	DATE: Hand 7 1977 BY: Ph. Juncal Regulation Marker
Pulled 1235' of 7" Casing.		
Operations complete 1/16/77.		
Verbal approval obtained from Mr.	E. W. Guynn @ 4:30 PM 1/14/77	•
Restoration of the surface disturb	ance should be completed by M	ay 31, 1977.
18. I hereby certify that the foregoing is true and correct	TITLE Consulting Engineer	DATE 2/28/77
This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

М

ns on side)	5. LEASE	DESIGNATION	AND	STRIAL	
	ST0"	71 202			

	(8	4
DEPARTMENT OF THE INTERIOR	(See other in- structions on reverse side)	ļ
GEOLOGICAL SURVEY	reverse side,	

ons on e side)	5. E	EASE	DES	IONATION	AND	-	L NO.
		L-0					
*	6. I	P IN	LAN,	ALLOTTES	OR	TRIBB	NAMI

			ECLOGIC	AL SU	KVEI				SL-0	71892	
		MOIT	OR RECO	MPLET	ION	REPORT	AN	D LOG*	6. IF IN	IAN, ALI	LOTTER OR TRIBE NAME
1a. TYPE OF WI	ELL:	WELL OII.	GAS WELL		RY X	Other			7. UNIT	AGREEME	EMAN TH
b. TYPE OF CO	MPLETION	₹:	•				Ma.	CEIVEN			
WELL	OVER	DEEP-	PLUG BACK	DIF	vr.	Other	-	7 20 - 1	8. FARM	OR LEAS	INAME
2. NAME OF OPER	ATOR	· · · · · · · · · · · · · · · · · · ·				G	4 c 3/O	1977 MINING	FEDE	RAL	•
WILLARD I	PEASE C	OIL AND	GAS COME	PANY		5	' ^{3,} &	MINU OIL	9. WELL	NO.	
3. ADDRESS OF OR	PERATOR							''' ' ''''	√ M-12		• *
570 Kenne	ecott E	Buildin	ng, Salt I	ake Ci	ty, U	Itah 🦈	·	150	10. PIBLE	AND PO	OL, OR WILDCAT
4. LOCATION OF W	ELL (Repo	rt location	clearly and in	accordance	with an	y State requi	emen	f#)** ()	WEST	WATER	\
At surface	269' FS	L, 133	36' FWL, S	Sec.11,	T178	, R23E,	Gra	nd County	11. BEC.,		., OR BLOCK AND SURVEY
At top prod. i	nterval rep	orted belo	w					Utah			# .
At total depth									SEC.1	1,T17	S,R23E, SLB &
At total depth				114 55	BMIT NO.				-		
				14. FL	BAIL NO.	i	DATE	ISSUED	12. COUN PARIS		13. STATE
15. DATE SPUDDED	1 16 DAT	E TD DEA	CHED 17. DAT	E COVER	(Dender +	o ared \ l			Gra		Utah ELEV. CASINGHBAD
,	j					18		VATIONS (DF, REB	, RT, GR, ETC.	19.	ELEV. CASINGHEAD
12/29/70 20. TOTAL DEPTH, MI		21. PLUG	BACK T.D., MD &	/16/77		TIPLE COMPL.		365' G.L.	ROTARY		CABLE TOOLS
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26. TYPE ELECTRIC	AND OTHE	R LOGS RU	N							1 27.	WAS WELL CORED
IES											NO
2 8.		······································	CAS	NG RECO	RD (Ren	ort all strings	set is	n 10 <i>01</i> 71			
CASING SIZE	WEIG	HT, LB./FT				LE SIZE	000 17	CEMENTIN	RECORD		AMOUNT PULLED
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7"	20		3048'			1/4 3/4		Sx REG +			NONE 1235'
	<u></u>		3040			J/ 12	-00	DA REG 1	Je Caci	2	1233
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29.	*************************************	L	NER RECORD		<u>' </u>		<u> </u>	30.	TUBING R	CORD	
SIZE	TOP (M	(D) I	BOTTOM (MD)	SACES CE	MENT*	SCREEN (MI)	SIZE	DEPTH SET	(MD)	PACKER SET (MD)
											
									·····		
31. PERFORATION RI	ECORD (Int	erval, size	and number)	<u> </u>		82.	ACI	ID. SHOT, FRAC	TURE, CEMI	ENT SQI	UEEZE, ETC.
PLUGS 0:						DEPTH INT					MATERIAL USED
6400' - 6				.ce: 10							-
3050' - 2	2950':				Reg-				····		
1235'	:	35 Sx	•	ulat	ion						
175' -	100':	40 Sx	<u> </u>	Mark	er						
33.*			·			UCTION					
DATE FIRST PRODUC	TION	PRODUCT	TION METHOD (riowing, go	is lift, pu	imping—eize (ind ty	ipe of pump)		LL STATU	Es (Producing or
DXA	1		7			····					DXA
DAIL OF TEST	HOURS	TESTED	CHOKE SIZE	PROD'N		OIL-BBL.		GASMCF.	WATER-	BL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	1 6101110	PRESSURE			>						
TOOM. TODING PRESS,	CASING	PRESSURE	24-HOUR BAT	OILE	BL.	GA83	CP.	WATER	—BBL.	OIL 6	GRAVITY-API (CORR.)
34. DISPOSITION OF	GAR (Rold	used for to	(e) nemted ses								·
OSITION OF	was (BUIS)	wassa jer ju	, 0011-50, 610.)						TEST WIT	TESED 1	BX
35. LIST OF ATTACE	MENTE				·	·			<u> </u>		
36. I hereby certif:	y that the	foregoing	and attached in	formation	is compi	ete and some	ot =-	determined for-	all amadiah 1		
	0 -		^		- comp	ere and cotté	45	serermined ILOM	an stansol	: recordi	•
SIGNED	KI		orly_	TI1	LE	Consulti	ng J	Engineer	DA	TE	2-28-77
			·		 					-	

1GPO 782-929

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not fibed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Pederal office for specific instructions.

interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval zone (multiple completion), so state in item 22, and in item 24 show the producing intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional atta pertinent to such interval.

14em 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

14em 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) 14cm 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

•	TOP	TRUE VERT. DEPTH								***	 	
GEOLOGIC MARKERS	T	MEAS. DEPTH		Surface 2600'	6400		,	···-			 	
38. GEOLOG				Mesa Verde Mancos	Dakota							
TS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING PEN, PLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.		Air or air mist drilled. No evidence of hydrocarbons present. Fresh water encountered @ 6608'.									
JARI OF FORCUS ACVES. 8HOW ALL IMPORTANT SONES OF POROSITY AND CONTENTS THEREOF. DEFTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	BOTTOM		Air or ai present.								 	
TANT ZONES OF POI	TOP		•		, -							
37. BUMBARI OF FOROUS CONES SHOW ALL IMPORTANT ZONES DEPTH INTERVAL TESTED, CUSI	FORMATION		Surface to T.D									•

FORM OGC-8-X FILE IN QUADRUPLICATE

DIVISION OF U.L.

GAS, & MINING



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116

ÉPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and NumberW	/ESTWATER FEDERAL M-12
Operator WILLARD PEASE	OIL & GAS COMPANY
Address 570 KENNE	COTT BUILDING, SALT LAKE CITY, UTAH 84133
Contractor WILLARD PEASE	DRILLING COMPANY
Address P. O. BOX	548, GRAND JUNCTION, COLORADO 81501
Location <u>SE</u> 1/4, <u>SW</u> 1/4,	Sec. 11; T. 17 1 R. 23 E; GRAND County
Water Sands: Depth: From- To-	Volume: Quality: Flow Rate or Head - Fresh or Salty
1. 0 - 3048'	UNKNOWN
2. 3048'- 6608'	NONE
3. 6608'	UNKNOWN FRESH
4.	
5.	
	(Continue on Reverse Side if Necessary)

Formation Tops:

MESA VERDE:

SURFACE

MANCOS:

2600'

DAKOTA:

6400'

NOTE:

- Upon diminishing supply of forms, please inform this office. (a)
- Report on this form as provided for in Rule C-20, General Rules (b) And Regulations and Rules of Practice and Procedure.
- If a water quality analysis has been made of the above reported (c) zone, please forward a copy along with this form.

WILLARD PEASE DRILLING CO.

P. O. Box 548

Phone 242-6912

2457 Industrial Blvd.
GRAND JUNCTION, COLORADO 81501

March 4, 1977

Division of Oil & Gas Conservation 1588 West North Temple Salt Lake City, Utah 84116

Attention: Pat Driscoll

Chief Petroleum Engineer

Dear Sir:

Enclosed herewith are copies of the Dowell and Halliburton Cementing companies on the M-11, M-12 and the 10-1 wells located in Grand County, Utah. I am sending you these plug and abandon tickets as per request of Don Quigley.

If I can be of any other help to assist in getting these reports that you require in your hands whereby we can continue as in the past to receive our drilling permits timely, please feel free to contact me. I remain,

Yours truly,

WILLARD PEASE DRILLING CO.

Willard H. Pease, President

WHP/mk



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TYPE COIL 110 STORAGE BRINE WATER CUSTOMER REPRESENTATIVE DOES CUSTOMER CONSIDER SERVICE:						DISPLACEMENT	WIR	RELINE			UNAVOIDAI	BLE	FI
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Form 9-321 (May 1963) DEF	UNIT STATE PARTMENT OF THE GEOLOGICAL SU	INTERIO	SUBMIT IN TR (Other instruct R verse side)	CIPLIC COMMENT	Form approved Budget Bureau 5. LEASE DESIGNATION A: SL=071892	No. 42-R1424.
SUNDRY (Do not use this form f	NOTICES AND REP	ORTS OF	N WELLS to a different reservable.)	rvoir.	6. IF INDIAN, ALLOTTEE	DR TRIBE NAME
1. GAS [7]					7. UNIT AGREEMENT NAM	à
WELL X	AZHTO				8. FARM OR LEASE NAME	
2. NAME OF OPERATOR	- CAC COMPANY			• • •	FEDERAL	
WILLARD PEASE OIL 3. ADDRESS OF OPERATOR	& GAS COMPANI				9. WELL NO.	
== ::	aliam Colt Toko Ci	ter Meah	Ω <i>/</i> 133	ł	M-12	
4. Location of well (Report I See also space 17 below.) At surface	lding, Salt Lake Ci ocation clearly and in accordance	ce with any St	ate requirements.*		10. FIELD AND POOL, OR WESTWATER	
1269' FSL	, 1336' FWL, Sec.]	ll, Tl7S,	R23E, Grand Uta		11. SEC., T., R., M., OR BL SURVEY OR AREA Sec.11, T17S, R.	
	15. ELEVATIONS (Show	w whether DF, R	, GR, etc.)		12. COUNTY OR PARISH	13. STATE
14. PERMIT NO.	7365' 0				Grand	Utah
16. Ch	eck Appropriate Box To I	Indicate Na	ure of Notice, R			
NOTICE	OF INTENTION TO:			BUBSEQUI	ENT REPORT OF:	
TERT WATER SHUT-OFF	PULL OR ALTER CASING		WATER SHUT-OI	FF	REPAIRING WI	ELL
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE TREA	TMENT	ALTERING CAS	\$1NG
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR A	CIDIZING	ABANDONMENT	r•
CEPAIR WELL	CHANGE PLANS		(Other)			- Well
Other) Abandon 17. DESCRIBE PROPOSED OF COMP		X	Completic	on or Recomple	of multiple completion of tion Report and Log form	0.)
Spudded Well @ 5: Ran and cemented cement + 3% CaCl	171' of 10 3/4" - 4	40.5# Cas	ing. Cemento	ed to sur	rface with 100	Sx Regular
	3048' of 7"-20# Cas					
Drilled to a tota and water was end	1 depth of 6608' woodntered at 6608'.	ith air c	r air mist.	No hydi	rocarbons were	present [] [] [] [] [] [] [] [] [] []
Formations 0:	•	Plugs	<u> </u>	1.	Hareh	9 1000
Mesa Verde: Surf Mancos: 2600 Dakota: 6400 Unable to Log bel) 1) 1		- 2950': - 100':	25 Sx 25 Sx (4) 35 Sx 40 Sx 15 Sx w/	Regulation Mark	w.c.e.l.
Pulled 1235' of 7	" Casing.		•			
Operations comple	ete 1/16/77.					
Verhal approval o	btained from Mr. E	. W. Guv	n @ 4:30 PM	1/14/77	•	
	ne surface disturba					
15. I hereby certify that the fo		TITLE Cons	sulting Engi	neer	DATE 2/28/	<u>′77 </u>
This space for Federal or	State office use)					1/
APPROVED BY		TITLE	· .		— SATE OF PORT	NATO -
	*See	Instructions	on Reverse Side			~ /

Form 9-331 (May 1963)	U' TED STATES DEPARTMENT OF THE INTER	SUBMIT IN TR' CATE* (Other Instruction on reverse side)	Form approved. Budget Burean No. 42-R1424 5. LEASE DENIGNATION AND BERIAL NO.
	GEOLOGICAL SURVEY		SL-071892
SUNE (Do not use this fo	ORY NOTICES AND REPORTS orm for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for such	ON WELLS back to a different reservoir. proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OU. 57 GAR 5	X OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Willard Peas	e Oil & Gas Co		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 570 Kennecot	t Bldg., SLC, UT 84133		FEDERAL 9. WELL NO. M-12
4. LOCATION OF WELL (Re See also space 17 below	port location clearly and in accordance with an	y State requirements.	10. FIELD AND POOL, OR WILDCAT Westwater
1269' FSL, 1	336' FWL, Sec 11, T17S, R231	E, Grand County, Utah	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec 11,T17S, R23E, SLB&M.
14. PERMIT NO.	15. ELEVATIONS (Show whether 7365 G.L.	DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE GRAND UTAH
16.	Check Appropriate Box To Indicate		Other Data
N	OTICE OF INTENTION TO:	SUBSEQU	ENT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	MULTIPLE COMPLETE ABANDON* CHANGE PLANS	Completion or Recomple	ALTERING WELL ALTERING CASING ABANDONMENT* Of multiple completion on Well etion Report and Log form.)
proposed work. If nent to this work.)* Drilled to a	completed operations (Clearly state all pertin well is directionally drilled, give subsurface to total depth of 6608' with water was encountered at 660	air or air mist.	depths for all markers and zones perti-
Mudded up to	9.8 ppg.	J	AN 9 1980
	50': 25 sx 50': 25 sx : 40 sx 90': 40 sx		DIVISION OF L, GAS & MINING
Surface Casing: 171 to 3048'. S	: 15 sx w/ regulation m ' cut off slightly below su Surface marker installed.		asing from 1235'
Drill site a	area has been restored and re	eseeded as instructed :	in January of 1978.
18. I hereby certify that to	the foregoing is true and correct Photos TITLE	Assistant Secretary	Jan 7, 1980
	al or State office use)		

APPROVED BY ______CONDITIONS OF APPROVAL, IF ANY:

DATE _